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Product datasheet for RC234220

B4GALNT1 (NM_001276468) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4GALNT1 (NM_001276468) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B4GALNT1
Synonyms:	GALGT; GalNAc-T; GALNACT; SPG26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC234220 representing NM_001276468
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGCTGGGCCGCCGGGCCCTGTGCGCTCTGGTCCTTCTGCTCGCCTGCGCCTCGCTGGGGCTCCTGT
ACGCGAGCACCCGGGACGCGCCCGGCCTCCGGCTACCTCTTGCGCCGTGGGCGCCCCCGCAAAGCCCCCG
CAGGCCCGAGCTGCCAGATCTTGCTCCTGAGCCCCGCTACGCACACATCCCGGTCAGGATCAAGGAGCAA
GTAGTGGGGAGCCAGTCCCCAGCTGACCAGCTGCTCATAGCCCCTGCCAACTCCCCGCTCCAGTACCCCC
TACAGGGTGTGGAAGTTCAGCCCCTCAGGAGCATCTTGGTGCCAGGGCTGAGCCTTCAGGCAGCTTCTGG
TCAGGAGGTATACCAGGTGAACCTGACTGCCTCCCTAGGCACCTGGGACGTGGCAGGGGAAGTGACTGGA
GTTACTCTCACTGGAGAGGGTCAGGCAGATCTCACCCTTGTCAGCCCAGGGCTGGACCAACTCAACAGGC
AACTACAACTGGTCACTTACAGCAGCCGAAGCTACCAGACCAACACAGCAGACACAGTCCGGTTCTCCAC
CGAGGGACATGAGGCTGCTTTCACTATCCGCATAAGACACCCGCCCAACCCTCGGCTGTACCCACCTGGG
TCTCTACCCCAGGGAGCCCAGTACAACATCAGCGCTCTAGTCACGATTGCCACCAAGACCTTCCTCCGTT
ATGATCGGCTACGGGCTCTCATCACCAGTATCCGCCGCTTCTACCCAACGGTTACCGTGGTCATCGCTGA
CGACAGCGACAAGCCAGAGCGCGTTAGTGGCCCCTACGTGGAACACTATCTCATGCCCTTCGGCAAGGGC
TGGTTCGCAGGCCGGAACCTGGCCGTGTCTCAAGTAACCACCAAGTACGTGCTGTGGGTGGACGACGACT
TCGTCTTCACGGCGCGGACGCGGCTGGAGAGGCTTGTGGACGTGCTGGAGCGGACGCCGCTGGACCTGGT
GGGGGGCGCGGTGCGCGAGATCTCCGGCTTTGCCACCACTTATCGGCAGCTGCTGAGCGTGGAGCCCGGC
GCCCCAGGCCTCGGGAACTGCCTCCGGCAAAGGCGCGGCTTCCACCACGAGCTCGTCGGCTTCCCAGGCT
GCGTGGTCACCGACGGCGTGGTTAACTTCTTCCTGGCGCGGACTGACAAGGTGCGCGAGGTCGGTTTCGA
CCCCCGCCTCAGCCGCGTGGCTCATCTGGAATTCTTCTTGGATGGGCTTGGTTCCCTTCGGGTTGGCTCC
TGCTCCGACGTCGTGGTGGATCATGCATCCAAACTGAAGCTGCCTTGGACATCAAGGGATGCCGGAGCAG
AGACTTACGCCCGGTACCGTTACCCAGGATCACTGGACGAGAGCCAGATGGCCAAACACCGGCTGCTCTT
CTTCAAACACCGGCTGCAGTGCATGACCTCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

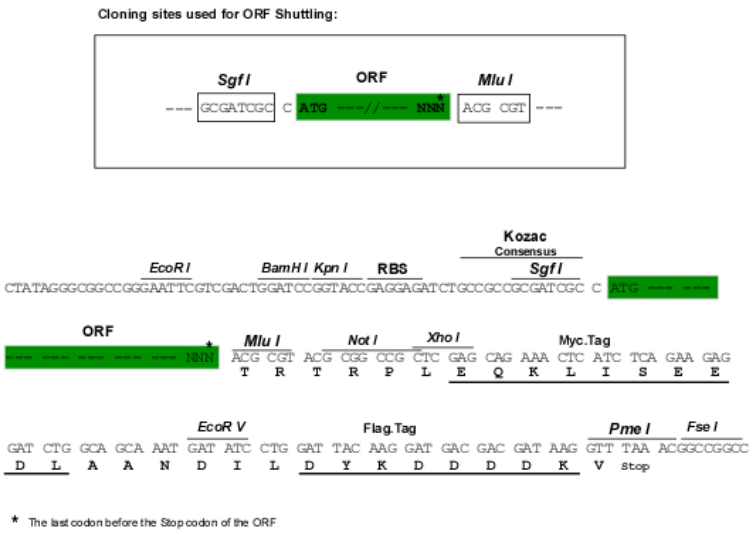
>RC234220 representing NM_001276468
Red=Cloning site Green=Tags(s)

MWLGRRALCALVLLLACASLGLLYASTRDAPGLRLPLAPWAPPQSPRRPELPDLAPEPRYAHIPVRIKEQ
VVGSQSPADQLLIAPANSPLQYPLQGVEVQPLRSILVPGLSLQAASGQEVYQVNLTASLGTWDVAGEVTG
VTLTGEGQADLTLVSPGLDQLNRQLQLVTYSSRSYQTNTADTVRFSTEGHEAAFTIRIRHPPNPRLYPPG
SLPQGAQYNISALVTIATKTFLRYDRLRALITSIRRFYPTVTVVIADDSDKPERVSGPYVEHYLMPFGKG
WFAGRNLAVSQVTTKYVLWVDDDFVFTARTRLERLVDVLERTPLDLVGGAVREISGFATTYRQLLSVEPG
APGLGNCLRQRRGFHHELVGFPGCVVTDGVVNFFLARTDKVREVGFDPRLSRVAHLEFFLDGLGSLRVGS
CSDVVVDHASKLKLPWTSRDAGAETYARYRYPGSLDESQMAKHRLLFFKHRLQCMTSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001276468

ORF Size: 1434 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_001276468.2

RefSeq Size: 2428 bp

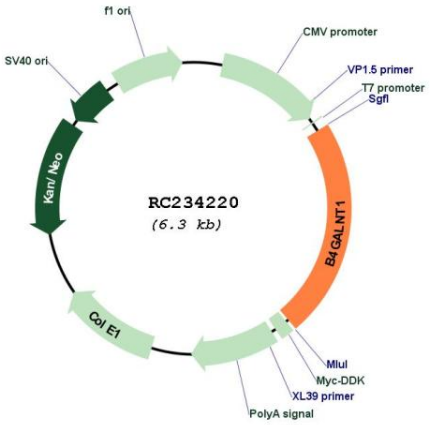
RefSeq ORF: 1437 bp

Locus ID: 2583

UniProt ID: Q00973

Cytogenetics:	12q13.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways
MW:	53.3 kDa
Gene Summary:	GM2 and GD2 gangliosides are sialic acid-containing glycosphingolipids. GalNAc-T is the enzyme involved in the biosynthesis of G(M2) and G(D2) glycosphingolipids. GalNAc-T catalyzes the transfer of GalNAc into G(M3) and G(D3) by a beta-1,4 linkage, resulting in the synthesis of G(M2) and G(D2), respectively. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2013]

Product images:



Circular map for RC234220